GOVERNMENT OF INDIA
SPACE
LOK SABHA

UNSTARRED QUESTION NO:623
ANSWERED ON:27.04.2016
Reusable Rocket
Chautala Shri Dushyant;Chinnayan Shri S.Selvakumara

Will the Minister of SPACE be pleased to state:

(a) whether the Indian Space Research Organisation is planning to launch reusable vehicle namely the Reusable Launch Vehicle-Technology Demonstrator (RLVTD) in near future;

(b) if so, the details thereof and whether the Government has also planned to extend the programme for the commercial purpose to other countries; and

(c) if so, the details thereof and the follow up actions proposed by the Government in this regard?

Answer

THE MINISTER OF STATE IN THE MINISTRY OF PERSONNEL, PG & PENSIONS AND IN THE PRIME MINISTER'S OFFICE (DR. JITENDRA SINGH):

(a) Yes Madam.

(b) Reusable Launch Vehicle − Technology Demonstrator (RLV-TD) is envisaged as a flying test bed to evaluate the critical technologies required for a hypersonic re-entry vehicle. The sub-systems for the RLV-TD, such as, the solid propellant booster and the winged body vehicle have been developed . The infrastructure for hardware and software has been established. The first flight test of the RLV-TD is expected in 2016, which would demonstrate the hypersonic aerodynamic characteristics, Avionics system, Thermal protection system, Control system and Mission management.

The Development of Reusable Launch Vehicle is a technical challenge and it involves the development of many cutting edge technologies. Presently, it is in the preliminary stage of total developmental process. A series of technology demonstration missions would be required before it could be used for launching.

(c) Does not arise.

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